

Table 4. Second-Line TB Drugs

Drug	Daily Dose* (Maximum Dose)	Adverse Reactions	Monitoring	Comments
Capreomycin	15-30 mg/kg (1g)	Toxicity - auditory - vestibular - renal	Assess -vestibular function -hearing function Measure -blood urea nitrogen -creatinine	After bacteriologic conversion, dosage may be reduced to 2-3 times per week
Kanamycin	15-30 mg/kg (1g)	Toxicity - auditory - vestibular - renal	Assess -vestibular function -hearing function Measure -blood urea nitrogen -creatinine	After bacteriologic conversion, dosage may be reduced to 2-3 times per week
Ethionamide	15-20 mg/kg (1g)	GI upset Hepatotoxicity Hypersensitivity Metallic taste Bloating	Measure hepatic enzymes	Start with low dosage and increase as tolerated May cause hypothyroid condition, especially if used with PAS
Para-aminosalicylic acid (PAS)	150 mg/kg (12g)	GI upset Hypersensitivity Hepatotoxicity Sodium load	Measure hepatic enzymes Assess volume status	Start with low dosage and increase as tolerated Monitor cardiac patients for sodium load
Cycloserine	15-20 mg/kg (1g)	Psychosis Convulsions Depression Headaches Rash Drug interactions	Assess mental status Measure serum drug levels	Start with low dosage and increase as tolerated Pyridoxine may decrease CNS effects
Ciprofloxacin	500-1000 mg/day	GI upset Dizziness Hypersensitivity Drug interactions Headaches Restlessness	Drug interactions	Not approved by FDA for TB treatment Should not be used in children Avoid - antacids - iron - zinc - sucralfate

Ofloxacin	400-800 mg/day	GI upset Dizziness Hypersensitivity Drug interactions Headaches Restlessness	Drug interactions	Not approved by FDA for TB treatment Should not be used in children Avoid - antacids - iron - zinc - sucralfate
Amikacin	15 mg/kg	Renal toxicity Vestibular dysfunction Hearing loss Chemical imbalance Dizziness	Assess - hearing function Measure - renal function - serum drug levels	Not approved by FDA for TB treatment
Clofazimine	100-300 mg/day	GI upset Discoloration of skin Severe abdominal pain and organ damage due to crystal deposition	Drug interactions	Not approved by FDA for TB treatment Avoid sunlight Consider dosing at mealtime Efficacy unproven

Notes: Doses for children same as for adults. Use these drugs only in consultation with a clinician experienced in the management of drug-resistant TB.

*Adjust weight-based dosages as weight changes.